

Patent claims

1. An outer ring (2) of a wheel bearing (8), the outer ring (2) having a hollow cylindrical section (2b) and having a flange (2c) which leads radially outwards from the hollow cylindrical section (2b), the flange (2c) merging at a concave channel (2d) into the section (2b), characterized in that the channel (2d), as viewed in a longitudinal section through the outer ring (2) along the rotational axis (11) of the outer ring (2), merges into a face (2p) of the flange (2c) at a first transition (2n) and into a circumferential surface (2m) on the section (2b) at a second transition (2l), and the perpendicular spacing between an imaginary axial extension of the circumferential surface (2m) and the first transition (2n) being smaller than a spacing which is parallel to the rotational axis (11) between an imaginary radial extension of the face (2p) and the second transition (2l).
2. The outer ring as claimed in claim 1, characterized in that the ratio between the perpendicular spacing and the parallel spacing is at least 1:1.5.
3. The outer ring as claimed in claim 1, characterized in that the channel (2d) is described in longitudinal section by radii, at least one first radius merging radially into the flange (2c) at the transition (2n) and at least one second radius merging axially into the first section (2b) at the transition (2l).
4. The outer ring as claimed in claim 4, characterized in that the first radius and the second radius merge into one another between the flange (2c) and the section (2b).
5. The outer ring as claimed in claim 4, characterized in that the first radius is

smaller than the second radius.

6. The outer ring as claimed in claim 1, characterized in that the ratio between the first radius and the second radius is at least 1:2.5.

7. The outer ring for a wheel bearing in a wheel carrier as claimed in claim 1, characterized in that the outer ring (2) is supported at least in sections in the wheel carrier (7) at least radially with respect to the rotational axis (11), and the flange (2c) which is formed axially on the end side of the outer ring (2) bears axially against the wheel carrier (7) here, the wheel carrier (7) bearing axially against the flange (2c) and radially against the circumferential surface (2m) in such a way that the wheel carrier (7) and the channel (2d) are spaced apart from one another at least as far as the transitions.

8. The wheel bearing as claimed in claim 1, characterized in that the outer ring (2) with the flange (2c) is cold formed in one piece.

9. The wheel bearing as claimed in claim 1, characterized in that at least one fastening element (14) engages axially behind the flange (2c) on a side (2e) of the flange (2c) which faces axially away from the wheel carrier (7), and the fastening element (14) bears axially fixedly here against the flange (2c), the fastening element (14) being fixed on the wheel carrier (7).

10. The wheel bearing as claimed in claim 1, characterized in that the fastening element (14) is a bolt with a head (14a), the bolt with the head (14a) bearing axially against the flange (2c) and a recess (2f) of the flange (2c) being fastened here

completely to the wheel carrier (7).

11. The wheel bearing as claimed in claim 5, characterized in that the recesses (2f) are open radially to the outside.